



Applicant: Torbjörn B. Lundqvist
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In the Claims

Please amend claims 1, 2, 12-15, 17, 21, and 24 as follows:

1. (Amended) A tire pressure monitoring device for monitoring tire pressure, said monitoring device comprising:

a housing coupled to a tire valve;

said housing having a first pressure chamber, a second pressure chamber, and a flexible membrane, wherein said first and second pressure chambers are separated by a flexible membrane; and

a signaling means for emitting a warning signal located within said housing,
~~wherein said signaling means emits a warning signal~~ when a pressure within the first pressure chamber is greater than a pressure within the second pressure chamber,
wherein the signaling mean is positioned adjacent to a top of said housing.

2. (Amended) The tire pressure monitoring device of claim 1 wherein said housing further comprises:

a lens, a main housing, and a lower housing, wherein said lens is coupled to a first end of said main housing and said lower housing is coupled to a second end of said main housing.

12. (Amended) The tire pressure monitoring device of claim 26 ~~40~~ further including a conductive Seal provided between said lens and said main body.

13. (Amended) The tire pressure monitoring device of claim 26 ~~40~~ wherein said power supply is at least one battery.

14. (Amended) The tire pressure monitoring device of claim 26 ~~40~~ wherein said signaling means is selected from the group consisting of a light emitting diode (LED), a speaker, a radio frequency (RF) transmitter, and a infrared (IR) transmitter.

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15. (Amended) The tire pressure monitoring device of claim 26 ~~40~~ wherein said flexible membrane is a conductive substance.

17. (Amended) A tire pressure monitoring device attachable to a tire valve for monitoring tire pressure, said tire pressure monitoring device comprising:

~~a housing, wherein said housing is adapted to engage a tire valve; and~~
~~—said housing~~ including a means for sensing a pressure differential and a means for signaling said pressure differential.

21. (Amended) The method of claim 20 wherein said warning signal ~~may be~~ comprises a signal selected from the group consisting of a light, a sound, a radio frequency (RF) wave, and an infrared (IR) light.

24. (Amended) A valve cap having an interior air pressure supplied through a conventional tire valve, said valve cap comprising:

a transparent top;
a light emitting diode (LED) attached to a printed circuit board;
an upper housing which accommodates the LED and the printed circuit board;
a flexible membrane;
a counter-pressure chamber, wherein the counter-pressure chamber is a space between the transparent top and the membrane;
at least one battery located within the upper housing; and
a lower housing which is internally threaded ~~and adapted to mate with a tire valve assembly~~.

Please add new claim 26 as follows:

26. (New) A tire pressure monitoring device for monitoring tire pressure, said tire pressure monitoring device comprising:

a main housing having a first end and a second end;
a flexible membrane positioned within said main housing;

a lens coupled to said first end of said main housing, wherein said lens and said flexible membrane define a counter-pressure chamber;

a lower housing having a first end and a second end, said lower housing coupled to said second end of said main housing, wherein said first end of said lower housing and said flexible membrane define a main pressure chamber; and

said second end of said lower housing adapted to engage a tire valve.

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